HIRA IMTIAZ

hiraimtiaz@neduet.edu.pk

Academics:

- **M.Engg. Electronics (Specialization in Micro System Design)** from NED University of Engg. & Tech., Karachi (2008-2010) with 4.00 CGPA
- **B.E. Electronic Engineering** from NED University of Engg. & Tech., Karachi with A+ grade (2004-2007)
- Intermediate from Khatoon-e-Pakistan Girls College, Karachi with A+ grade (2001-2003)
- Matriculation from F.G. Public Girls Secondary School with A grade (2001)

Teaching Experience:

1. Lecturer in Department of Electronic Engineering NED University Karachi
   - Solid State Electronic Devices
   - Electronics-I
2. Instructor at PNEC-NUST Karachi
   - Electronic Devices and Circuits
   - Basic Electronics

Technical Experience:

- **Internship at PIA Engineering, Karachi**: Summer Training as internee, 14th June 2006-13th July 2006
- **Training at Star Engineering:** On Micro-controller (MC-51 family), Dec 2005-Feb 2006

Bachelor's Thesis:

- Mobile services which provide higher data rates along with the traditional voice traffic are more appealing for the subscribers. But all the high speed systems are severely affected by multipath resulting in delay spread which causes ISI. To remove this problem equalizers are used.

- Traditionally equalization was done in time domain but it became complex for the channels with large impulse response. So the best solution is to use Single Carrier Frequency Domain Equalizer (SC-FDE) with no power back off penalty (unlike OFDM).

Prominent Project:

- Participation in Ball pointing Robot, which follows predefined path exhibited in SPEC 2006.

Computer Skills:

- **Programming and Problem Solving**: C-language, MATLAB
- **Simulation Tools**: MATLAB, Simulink, Multisim
- **VLSI EDA Tools**: Verilog HDL, Xilinx, ModelSim

Memberships:

- Registered Engineer from Pakistan Engineering Council